

Product datasheet for **RN217267**

Gas2l2 (NM_001105823) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gas2l2 (NM_001105823) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gas2l2
Synonyms:	Gas2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>RN217267 representing NM_001105823

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

 ATGTCTCAGCATGTGGGACACGGGAGGAAACCCAGGACCCAGGACCTCCTGTGCGCAGCATCCGACCT
 TCAAGTCCAGCGAGCAGTACCTGGAGGTCATGAAGGAAGACCTGGCTGAGTGGCTTCGGGATCTGTACGG
 GCTGGACATTGACGCAGCCAACCTCCTGCGGGTCTGGAGACTGGCTGGTGTGTGCGCGCATGCCAAC
 ACCGTCACGGAGGCTGCTCTGGCTTTCTGGCTGAGGCACCTGAGAGAGTTCAAAGATTCCCATGCCCC
 AGGTTGGCGTTTTCTGCAATGGGCTGCTCAGCCGGGTACGTTCCAGGCCAGGGACAACATCTCCAACCT
 TATCCAGTGGTGTGCAAGGAGATGGGGATCCAAGAGGTGCTGATGTTGAGACAGAGGACCTGGTACTA
 CGAAGAACGTCAAGAGCGTGGTATTATGTCTACTGGAGCTGGGTCGCCGCGCTTGGCGCTTTGGGGTGG
 CAGCGCCCTCCCTGGTGTATCTGGAAGAGGAAATTGAGGAGGAGCTGCGGCGCGACCTGGACCTGCCCTC
 CCCGACCCGCCACCCGTAACCCCTGCCCGCAGGCCTTGCCACTTCCACAACCTGGACCAGATGGTG
 CAGAGCCTTGTGAGCCACTGCACATGCCAGTGAATTCTCCATGGTCAAGATATCTGATGGCAAGTACA
 GAGTGGGGGACTCCAACACTCTCATCTTCATCCGGATCCTCCGGAGCCACGTGATGGTACGTGTTGGGGG
 TGGCTGGGACACGCTGGGTCAATATCTGGATAAACATGACCCCTGCCGGTGCACATCCCTCTCCACAAA
 CCAGGCAGCTTCTGAAGCCTCCAGGACCACCGTGCAGCATGAAGTGAAGGTACAGGATGGGCCTTCAC
 AGCCCCAGCCTCTGATGACCATCAGCCGCTCAGAGGCCACTGCCTCCAGTGGACTGGAAGACATACAC
 CTCTTCCAGCCGAAAACCTGAGGCCTCCCACTCCCTCTTCTTGGACCCGTAAGTGAATCCAGCGAGG
 GCCAGAACCCCTAGAGAGATGGTCCATTCTGAGGTCCCAAGAAAAACCACTCTGTCTCAGAGGATGT
 CATCACCTGGTCCCCAACTATCATCTCTTGTAGGGGACCAGACCTACAGAGTACCCTATCAGAAAGGAG
 AGTAAATAGAAGCCAGGTGAACCTGCCAGAGGAAGGACACCCAGCTCTGGGTTCCCAAGGAAGCAGAC
 AGTCAAGGAGCACACACCAAGGCTCCCATACCCAGAGGCTCCAATCCCTGAGACCACCAAGTAAAAAGA
 CACCAGCAAGAGGACCATCTCCCCACCTCGTTCCTCCAGCCTAGCCAGTCTCACACTATCTGGTCCC
 CGACCAGGAGCCTCCCCAGAGATTAGTGAACCATGTCTGCTCAATCTTCATCCCTGGCAAAGGGCTC
 ACCAAGATCCCTATTCGGCTGTCCCTGCCCGACCCCAACTCCAGGAAGAGGCTCTTGGGTACTGAAG
 GTGGAGGCTCCATGCAGAGAGGTTCCCTCTCATCGAGGCGCTTGCAGGGAATCTGGATAGATCTACACA
 TGGGCATCATTCTGTGGACGTAAGCAAGGACCACAGAAAGTCATACAGATTTCTTCAGGGAAGTGAAGT
 CCCAGGAGCTTGGGTACACAGGAACGAAAGAGAGATACACCTCTCTGCCCTGGGCAGGACCAGAGAGC
 CAGCCCTCTATGATAACCTTAAAGAGGAGCTTGTGGCCAACATGAACTGCTGGAGGTGGGGGCTGCCTG
 CACTCAGGCTACAAGGTCTCAAGCCATCCCTCGAAGTGGGGTCTATGTCCCCAGCCTGGGTGGGATGTGG
 CCTGAGCCTAGGGGTCTTATGATAAAGTCATCCAGGAAGTGGTTCAGGGTCTCCACGCCTCTAAAAAG
 TGGATCTGAAAGCCTGGAAGGTAGGATCTGAATGCCTCCCTAGGCCAATTGTGAACCCAGGAAGCCCCAA
 AGAGGAGCAAGTTTCCAGAGAGAGGGGAACAAGGAGAAAGGCACGCCAAGTGCCAGGGTACCACGGTG
 AAGACCACGTACCTGCAAGAGGGCAGGACTGCTCAACCTTGCTGTATCTGCCAACCTGAAAGTCCCCA
 CACATTCATGTTAGACCCCAAGTTCTGATAAAGCAAGGTATGTCTGGCAAGGGCAAAAGAACTCTCCG
 GAAACCCAGAAAGTCCCATCCATTTACAAGCTGAAGCTGAGACCCGAATCCGGCCCCGTAGAGACCAC
 AGGCCCGAAAAGAGACCTTCCAGGATTCCAAGCCACTGGTTTACCCCTCCTTGGTCCAGCCAGGACAG
 CTCTGGAAGCAGGCTCTTAAAAGCTACATTAGGTGGCACAGGAGGGGATGTGAATGGAGTAGGTAAAAA
 GGAGGAAGAGAAAAAGAAAGAAACAGCATCTCATTGGAGAGCAGCATCCAGCCTTCAGAGAGCCGGGAG
 CCTATGCAGCTTGATGGAACCCCACTTCCACCGGAGGAGGAATCTTGGGT**TGA**
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001105823

Insert Size:

2574 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001105823.2, NP_001099293.2</u>
RefSeq Size:	3105 bp
RefSeq ORF:	2574 bp
Locus ID:	287570
UniProt ID:	<u>D3ZUE1</u>
Cytogenetics:	10q26
Gene Summary:	Involved in the cross-linking of microtubules and microfilaments (By similarity). Regulates microtubule dynamics and stability by interacting with microtubule plus-end tracking proteins, such as MAPRE1, to regulate microtubule growth along actin stress fibers (By similarity). Enhances ADORA2-mediated adenylyl cyclase activation by acting as a scaffold to recruit trimeric G-protein complexes to ADORA2A (By similarity).[UniProtKB/Swiss-Prot Function]